

Patent claims

1. A roller holder unit with rollers (2, 2') for an electrically, electro-hydraulically, or pneumatically operated pressing tool with a piston-cylinder unit (5) with which the clamping jaws (61) are connected to a fork-like receiver (55) by way of a retaining bolt, wherein the rollers (2) roll on the clamping jaws (61) of a clamping pincer (60) whilst the clamping pincer (60) is moved by the piston-cylinder unit (50), wherein the pressing is accomplished in that the clamping jaws (61) at the rear are pressed apart by the rollers (2), characterized in that the roller holder unit comprises a bearing block (1) and at least one lateral retaining plate (3) arranged thereon in which two rollers (2) are held secured in a freely rotatable manner, wherein the bearing block (1) is provided with a sliding bearing surface (11, 12) for each roller (2, 2'), which in its shape corresponds to the roll surface and thus to the outer diameter of the roller (2, 2').
2. A roller holder unit according to claim 1, characterized in that the rollers (2) are secured on the retaining plate (3) with securing pins (21), wherein the securing pins (21) are arranged such that the rollers (2) at their outer periphery are rotatable, bearing on one another, in the region between the securing pins (21).
3. A roller holder unit according to claim 1, characterized in that the sliding bearing surfaces (11, 12) are mirror-symmetric, wherein the deepest location with respect to the bearing block (1) is located between the periphery of the bearing block (1) and its center.
4. A roller holder unit according to claim 1, characterized in that the bearing block (1) is fastened on a piston rod (52) of the piston-cylinder unit (5).
5. A roller holder unit according to claim 4, characterized in that a lubrication groove (13) is admitted into the sliding bearing surfaces (11, 12).
6. A roller holder unit according to claim 4, characterized in that the surface of the sliding bearing surfaces (11, 12) is coated or hardened so that it has a low friction with respect to the rollers (2).
7. A roller holder unit according to claim 4, characterized in that the surface of the rollers (2) is coated or hardened so that it has a low friction with respect to the sliding bearing surfaces (11, 12).

8. A roller holder unit according to claim 4, characterized in that self-lubricating material pairings are used for the rollers (2) and the sliding bearing surfaces (11, 12).
9. A roller holder unit according to claim 1, characterized in that the bearing block (1) and the sliding bearing surfaces (11, 12) are of one piece.
10. A roller holder unit according to claim 1, characterized in that the bearing block (1), the sliding bearing surfaces (11, 12) and retaining plates (3) are of one piece.